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L5 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
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AN 2004:1154779 CAPLUS Full-text

DN 142:62766

TI Product of coprecipitation of sparingly soluble substance and water-soluble polymer and process for producing the same

IN Ishikura, Toyoaki; Udagawa, Chikako; Misaka, Masato; Suemune, Kenji; Kitahara, Shinichi; Ono, Kiyoko; Koyanagi, Akihiro

PA Meiji Seika Kaisha, Ltd., Japan

SO PCT Int. Appl., 31 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 2

	PATENT NO.				KIND DATE			APPLICATION NO.						DATE				
ΡI	WO 2004113451			A1 20041229			1	WO 2	004-	JP87	20040621							
		W:	ΑE,	AG,	AL,	AM,	AT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BW,	BY,	ΒZ,	CA,	CH,
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	ΕP	EP 1650266			A1 20060426			EP 2004-746196						20040621				
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PRAI	RAI JP 2003-175646					Α	•	2003	0620									
	WO 2004-JP8727					W		2004	0621									

AB Disclosed is a product of the copptn. of 2-(1-isopropoxy-carbonyloxy-2-methylpropyl)-7,8-dimethoxy-4(5H),10-dioxo-2H-1,2,3-triazolo[4,5-c][1]benzoazepine (I) and a water-soluble polymer. The copptn. product is excellent in solubility and absorbability. Crystalline I and Me cellulose were dissolved in DMSO. The mixture was dropped into an aqueous solution containing Me cellulose to give ppts., which showed a solubility 16.8 μ g/mL, as compared to 0.8 μ g/mL for crystalline I.

IT 222633-22-9

RL: PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses) (copptn. of sparingly soluble tricyclic triazolobenzazepine derivative and water-soluble polymer for improving solubility)

RN 222633-22-9 CAPLUS

CN Carbonic acid, 1-(5,10-dihydro-7,8-dimethoxy-4,10-dioxo-1,2,3-triazolo[4,5-c][1]benzazepin-2(4H)-yl)-2-methylpropyl 1-methylethyl ester (9CI) (CA INDEX NAME)

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ANSWER 2 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
L5
     2004:1154716 CAPLUS Full-text
ΑN
DN
     142:100324
     Tricyclic triazolobenzazepine derivative produced as novel crystalline
ΤI
     substance
ΙN
     Kitahara, Shinichi; Yamaguchi, Toshihiro
     Meiji Seika Kaisha, Ltd., Japan
     PCT Int. Appl., 21 pp.
     CODEN: PIXXD2
DT
     Patent
LA
     Japanese
FAN.CNT 1
     PATENT NO.
                         KIND
                                DATE
                                            APPLICATION NO.
                                                                    DATE
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PΙ
     WO 2004113343
                          A1
                                20041229
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             GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
             LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
             NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
             TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
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             AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
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PRAI JP 2003-175347
                                20030619
                          Α
     WO 2004-JP8729
                          W
                                20040621
AΒ
     Crystalline 2-(1-isopropoxycarbonyloxy-2-methylpropyl)-7,8-dimethoxy-4(5-
     H), 10- dioxo-2H-1, 2, 3-triazolo [4,5-c] [1] benzazepine (I) (X ray crystallog.
     data given) is claimed. The crystals of I of this invention have high
     solubility and bioavailability. Crystallization of I from DMF and water gave
     \beta type crystals of I. I is an antiallergic agent.
ΙT
     222633-22-9
     RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); PRP
     (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (tricyclic triazolobenzazepine derivative produced as novel crystalline
        substance)
RN
     222633-22-9 CAPLUS
CN
    Carbonic acid, 1-(5,10-dihydro-7,8-dimethoxy-4,10-dioxo-1,2,3-triazolo[4,5-
     c][1]benzazepin-2(4H)-yl)-2-methylpropyl 1-methylethyl ester (9CI) (CA
     INDEX NAME)
MeO.
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RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L5
     ANSWER 3 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
ΑN
     2003:532667 CAPLUS Full-text
DN
     139:90493
ΤI
     Amorphous substance of tricyclic triazolobenzazepine derivative
     Ishikura, Toyoaki; Ishizawa, Takayuki; Suemune, Kenji; Ishiwata, Mayumi;
     Udagawa, Chikako
PΑ
     Meiji Seika Kaisha, Ltd., Japan
SO
     PCT Int. Appl., 25 pp.
     CODEN: PIXXD2
DT
     Patent
LA
     Japanese
FAN.CNT 2
     PATENT NO.
                         KIND
                                DATE
                                            APPLICATION NO.
                                                                    DATE
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PΙ
     WO 2003055886
                         A1
                                20030710
                                            WO 2002-JP13558
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             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ,
             UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
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                                20030710
                                          CA 2002-2471651
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                          Α1
                                20030715
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     EP 1466914
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     CN 1617872
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PRAI JP 2001-393016
                          Α
                                20011226
     WO 2002-JP13558
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                                20021225
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Disclosed are amorphous 2-(1-isopropoxycarbonyloxy-2-methylpropyl)-7,8-dimethoxy-4(5H),10-dioxo-2H-1,2,3-triazolo[4,5-c][1]benzazepine (I), which is improved in absorbability and solubility; and a medicinal composition containing the compound Also provided are processes for producing amorphous compound I and for producing a medicinal composition containing the compound An amorphous compound I was dissolved in methylene chloride, and mixed with Me cellulose (Metolose SM15) and methanol. The mixture was then spray dried to obtain an amorphous powder of the present invention.

IT 222633-22-9

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (amorphous substance of tricyclic triazolobenzazepine derivative having improved absorbability and solubility)

RN 222633-22-9 CAPLUS

CN Carbonic acid, 1-(5,10-dihydro-7,8-dimethoxy-4,10-dioxo-1,2,3-triazolo[4,5-c][1]benzazepin-2(4H)-yl)-2-methylpropyl 1-methylethyl ester (9CI) (CA INDEX NAME)

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L5
     ANSWER 4 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
     2003:532666 CAPLUS Full-text
ΑN
DN
     139:95490
ΤI
     Crystalline tricyclic triazolobenzazepine derivative
     Kitahara, Shin-Ichi; Furukawa, Hanae; Yamaquchi, Toshihiro; Miyamoto,
     Sachiko; Okada, Yumiko
PΑ
     Meiji Seika Kaisha, Ltd., Japan
SO
     PCT Int. Appl., 17 pp.
     CODEN: PIXXD2
DΤ
     Patent
LA
     Japanese
FAN.CNT 2
     PATENT NO.
                        KIND
                                DATE
                                           APPLICATION NO.
                                                                  DATE
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PΙ
     WO 2003055885
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            PL, PT, RO, RU, SC, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT,
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         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
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             FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ,
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     CN 1617872
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     US 2005020579
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PRAI JP 2001-393016
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     WO 2002-JP13557
                         W
                                20021225
     Crystalline 2-(1-isopropoxycarbonyloxy-2-methylpropyl)-7,8-dimethoxy-4(5-
AΒ
     H), 10- dioxo-2H-1, 2, 3-triazolo [4,5-c] [1] benzazepine (I) (X ray crystallog.
     data given) is claimed. I is an antiallergic agent.
IT
     222633-22-9P
     RL: PAC (Pharmacological activity); PRP (Properties); PUR (Purification or
     recovery); SPN (Synthetic preparation); THU (Therapeutic use); BIOL
     (Biological study); PREP (Preparation); USES (Uses)
     (crystalline tricyclic triazolobenzazepine derivative as antiallergic agent)
RN
     222633-22-9 CAPLUS
CN
     Carbonic acid, 1-(5,10-dihydro-7,8-dimethoxy-4,10-dioxo-1,2,3-triazolo[4,5-
     c][1]benzazepin-2(4H)-yl)-2-methylpropyl 1-methylethyl ester (9CI) (CA
     INDEX NAME)
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RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L5 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
- AN 1999:233920 CAPLUS Full-text
- DN 130:282073
- TI Preparation of tricyclic triazolobenzazepine derivatives as prodrugs for antiallergic agents
- IN Ohtsuka, Yasuo; Nishizuka, Toshio; Shiokawa, Sohjiro; Tsutsumi, Seiji; Kawaguchi, Mami; Kitagawa, Hideo; Takata, Hiromi; Shishikura, Takashi; Ishikura, Toyoaki; Fushihara, Kenichi; Okada, Yumiko; Miyamoto, Sachiko; Shiobara, Maki
- PA Meiji Seika Kaisha, Ltd., Japan
- O PCT Int. Appl., 143 pp.
- CODEN: PIXXD2
- DT Patent
- LA Japanese

	CNT 1	se																	
17114.	PATENT NO.					KIND DA				APPLICATION NO.						DATE			
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	CA 2305307 CA 2305307									CA 1998-2305307							19900929		
	AU 9891869								AU 1998-91869							19980929			
	AU 744636															13300323			
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	HU 200004020					2001						4020				9980			
	TW 510				В		2002							6198			9980		
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	AT 233				T	•	2003			AT	19	98-	9442	89 89 89		1	9980	929	
	PT 1026167 ES 2191963			Т3		2003 2003			PT	1.0	98-	9442	89 00		1	9980	929		
	SK 283869			B6		2003					,90- 100-		09		.1	990U 990U	929 929		
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	MX 200		7		Α		2000	1110		MΧ	20	000-	3047	94 02		2	0000	328	
	US 637	2735			B1		2002	0416		US	20	000-	5094	94		2	0000	329	
	HK 103				A·1		2004										0010		
	US 200		39		A1		2002			US	20	02-	7332	6		2	0020	213	
	US 702		<i>-</i> -		B2		2006												
	NO 200				A		2000						3765				0040		
PRAI	US 200 JP 199				A1		2006 1997			υS	20	105-	2698	28		21	0051	109	
FRAI	JP 199 JP 199				A A		1997												
	CN 200			3	A A3		1998												
	WO 199			_	W		1998												
	US 200				A3		2000												

MARPAT 130:282073

OS GI

AB Tricyclic triazolobenzazepine derivs. represented by general formula [I; R1 represents hydrogen, OH, alkyl, or phenylalkyl; R2, R3, R4, and R5 each represents hydrogen, halogeno, optionally protected hydroxyl, formyl, optionally substituted alkyl, alkenyl, alkoxy, etc.; Q represents a group selected among groups of OCO2R33, O2CR34, O2CNR35R36, OP(:O)(OR37)OR38, halogeno, or alkoxy; R33 and R34 each represent (un)substituted alkyl, Ph, or (un)saturated 5- to 7-membered ring heterocyclyl, etc.; and R35 and R36 each represent hydrogen or (un) substituted alkyl or NR35R36 forms a (un) saturated 5- to 7-membered ring heterocyclyl] in the form of a prodrug. and pharmacol. acceptable salts and solvates thereof are prepared These compds. have excellent bioavailability. Thus, 1.07 g Et 5-(4,5-dimethoxy-2-nitrobenzoyl)-1H-1,2,3-triazole-4-carboxylate (preparation given) and 53 mg p-MeC6H4SO3H.H2O were suspended in CH2Cl2 and stirred with 330 mg isobutyraldehyde at room temperature for 25 min, followed by adding 744 mg 1,1'-carbonyldiimidazole in 5.0 mL CH2Cl2, and the resulting mixture was stirred at room temperature for 3 h and then refluxed with 920 mg iso-Pr alc. to give 34% Et 2-(1isopropoxycarbonyloxy-2-methylpropyl)-5-(4,5- dimethoxy-2-nitrobenzoyl)-1H-1,2,3-triazole-4-carboxylate. The latter compound was hydrogenated over Pd(OH)2 in EtOAc at room temperature for 15 h to give 99% Et 5-(2-amino-4,5dimethoxybenzoyl)-2-(1-isopropoxycarbonyloxy-2- methylpropyl)-1H-1,2,3triazole-4-carboxylate which was heated in AcOH at 100° for 2 h with stirring to give the title compound (II) in 62% yield. When II in 0.5% aqueous methylcellulose was administered p.o. to dogs or rats, the area under the concentration time curve (AUC) value was 1.2±0.3 µmol. h/L for dogs and 1.4 ± 0.1 μ mol. h/L for rats, which was 4-times higher in dog and 7-times higher in rats compared to that of its active form. A tablet and a fine powder formulation containing II were described.

IT 222633-22-9P 222633-24-1P 222633-28-5P 222633-30-9P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of tricyclic triazolobenzazepine derivs. as prodrugs for antiallergic agents)

RN 222633-22-9 CAPLUS

CN Carbonic acid, 1-(5,10-dihydro-7,8-dimethoxy-4,10-dioxo-1,2,3-triazolo[4,5-c][1]benzazepin-2(4H)-yl)-2-methylpropyl 1-methylethyl ester (9CI) (CA INDEX NAME)

CN Carbonic acid, 1-(5,10-dihydro-7,8-dimethoxy-4,10-dioxo-1,2,3-triazolo[4,5-c][1]benzazepin-2(4H)-yl)-2-methylpropyl 2-ethoxy-1-(ethoxymethyl)ethyl ester (9CI) (CA INDEX NAME)

RN 222633-28-5 CAPLUS

CN Carbonic acid, 1-[5,10-dihydro-7-methoxy-8-(1-methylethoxy)-4,10-dioxo-1,2,3-triazolo[4,5-c][1]benzazepin-2(4H)-yl]-2-methylpropyl 2-ethoxy-1-(ethoxymethyl)ethyl ester (9CI) (CA INDEX NAME)

RN 222633-30-9 CAPLUS

CN Carbonic acid, 1-[5,10-dihydro-7-methoxy-8-(1-methylethoxy)-4,10-dioxo-1,2,3-triazolo[4,5-c][1]benzazepin-2(4H)-yl]-2-methylpropyl 1-methylethyl ester (9CI) (CA INDEX NAME)

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 12; d his; log y L2 HAS NO ANSWERS L1 STR

Structure attributes must be viewed using STN Express query preparation. L2 QUE ABB=ON PLU=ON L1

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L1 STRUCTURE UPLOADED

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L5 5 S L4

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